

**MULTIDIMENSIONAL ELECTROPHORESIS  
AND METHODS OF MAKING AND USING THEREOF**

**Abstract**

Disclosed herein are multidimensional electrophoresis devices and methods of using thereof. The multidimensional electrophoresis devices comprise short microchannels having lengths of less than about 1 millimeter to about 5 centimeters. The microchannels may comprise solid sieving medium having different sieving characteristics. IEF and PAGE, including SDS-PAGE and native PAGE, using the multidimensional electrophoresis devices takes only a few minutes or less to perform.